

NGDA Dataset Report

Official NGDA Title: National Inventory of Dams

Metadata Record Title: National Inventory of Dams

A-16 NGDA Theme: Water - Inland

Executive NGDA Theme Champion(s):

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Metadata:

Registration Status: Complete

Registered on 4/15/2015

GeoPlatform Link*: <https://www.geoplatform.gov/node/243/871c3756-0dfd-4f0e-9de4-47692a66d7ef>

Data.gov Metadata Link*: <http://catalog.data.gov/harvest/object/1cfbbef1-d793-49c8-81da-3ed224a82825/html>

*If the metadata has been updated and reharvested after publication of this report, the link may no longer be valid. The dataset may be searched for manually in Data.gov or GeoPlatform.gov.

NGDA Lifecycle Maturity Assessment (LMA) Report

Time Frame:

Baseline assessment responses include dataset activities from 2000 to 2015.

LMA Submission:

Status: Complete

Date: 10/23/2015

Extension Requested: Yes

LMA Reviewer(s):

Supervisor: Did not review

Theme Lead: Did not review

Executive Champion: Did not review

SAOGI*: Did not review

Other: William Nye

LMA Verifier:

Name: William Nye

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Attachments:

To get access to any attachments referenced in the report, email the LMA Help Desk at NGDA_LMA_help@fgdc.gov. Please use the subject "Dataset Report Attachment(s)" and indicate the associated official NGDA title.

*Senior Agency Official for Geospatial Information (SAOGI)

Lifecycle Maturity Assessment (LMA) Summary

Overall Maturity:

Optimized; Established

General Questions: 100%

Optimized; Established

Stage 1 - Define/Plan: 100%

Optimized; Established

Stage 2 - Inventory/Evaluate: 100%

Optimized; Established

Stage 3 - Obtain: 100%

Optimized; Established

Stage 4 - Access: 100%

Optimized; Established

Stage 5 - Maintain: 100%

Optimized; Established

Stage 6 - Use/Evaluate: 100%

Optimized; Established

Stage 7 - Archive: 100%

Optimized; Established

NGDA Dataset Maturity Definitions:

How To Calculate Maturity: https://www.geoplatform.gov/sites/default/files/How_to_Calculate_Maturity.pdf

Maturity	Maturity Characteristics for All Lifecycle Stages
Optimized; Established Rank = 5	Dataset meets virtually all business needs of all users. The dataset is considered authoritative by owners and secondary users. It is curated across all stages of the approved lifecycle. Future needs are defined on a regular basis and resources for addressing both current and future business requirements are available.
Mature; Consistent Rank = 4	Dataset meets all the business needs of the primary owner and most of the secondary users. The dataset is curated and used as authoritative by the primary owner. Dataset is used widely by secondary users actively engaged in sustaining the dataset. Future needs are identified and steps are planned to address these. All stages are supported and reviewed on a recurring basis. The dataset is well managed in relation to the approved lifecycle.
Managed; Predictable Rank = 3	Dataset meets a significant number of the business needs of the primary owner and is widely used as an authoritative resource by secondary users. Benchmark activities are occurring in at least four of the approved lifecycle stages. Management practices in relation to the approved lifecycle is moderate but consistent. Dataset is integrating changing business requirements in lifecycle stages impacting overall maturity.
Transition; Transformation Rank = 2	Dataset meets business needs of the primary owner and has moderate use by secondary users. Benchmark activities are occurring in at least three stages. Efforts to integrate funding, include partners, and obtain data are not supported in a sustained manner. Management practices in relation to the stages of the approved lifecycle is limited.
Planned; Initial Development Rank = 1	Dataset limited in meeting business needs of the primary owner. Benchmark activities in the approved lifecycle are just starting to consider secondary uses, partnerships are forming to support additional dataset uses. Dataset development is in a very early stage. Minimal or limited management against the benchmarks in the approved lifecycle.
No Activity Rank = no activity	Dataset meets project or local business needs of the primary owner, secondary or additional uses or users were not considered, not recognized as an authoritative data or is part of a similar dataset. Not managed to any of the benchmarks in the approved lifecycle.

General Questions for All Stages

1) Is there a recurring process to obtain funding for all lifecycle stages of this dataset?

Answer: Funding support is part of agency budget on a recurring basis, funding is consistent and tied to business processes, and supports all lifecycle stages.

Justification Comment:

Attachment(s): 1

Authority: Section 215 of the Water Resources Development Act of 1996 (Public Law 104-303) initially authorized a \$500,000 appropriation for each fiscal year to maintain and publish the NID. This authorization continues in Section 3001 of the Water Resources and Reform Development Act of 2014 (Public Law 113-121) to carry the annual \$500,000 appropriation through fiscal year 2019. See attached Justification Sheet for FY17.

2) Is there a process in place to ensure that open government and transparency guidelines are followed in all lifecycle stages for this dataset?

Answer: Process is published as appropriate with respect to sensitivity requirements, process is transparent, published appropriately.

Justification Comment:

Attachment(s): 0

The National Inventory of Dams dataset is available for public viewing and querying via USACE web site, <http://nid.usace.army.mil>. Because of security concerns, the NID is not available for public download. Six data fields have been identified as sensitive and a government account is required to view this information. Government users also have the capability to download and export the NID data. All government users must accept the non-disclosure agreement before entering the NID web site. The six NID data fields restricted to government access are Nearest Downstream City, Distance to Nearest Downstream City, Hazard Potential Classification, Condition Assessment, Condition Assessment Detail and Condition Assessment Date. Federal government accounts are approved in conjunction with the requesting federal agency (through assigned Points of Contacts). State and local government accounts are approved by the state dam safety offices. The NID dataset is also available to government agencies from Homeland Security Infrastructure Program (HSIP).

3) Are there processes and tools in place so that staff are sufficiently knowledgeable to ensure a continuity of the dataset for all stages of the lifecycle, especially during staffing transitions?

Answer: Processes and tools to ensure dataset continuity are in place and implemented for all lifecycle stages.

Justification Comment:

Attachment(s): 1

The National Inventory of Dams is updated periodically and coordinated through the Interagency Committee on Dam Safety, National Dam Safety Review Board and the Association of State Dam Safety Officials. The NID data dictionary defines all data fields in the database, see attached.

STAGE 1 - Define/Plan

4) Are user and business requirements defined and formalized?

Answer: A recurring process is in place, including defining new partner and stakeholder business needs as they arise, and is fully implemented.

Justification Comment:

Attachment(s): 0

Business needs and processes are discussed within the NID Work Group (4 federal and 3 state representatives) then proposed to the National Dam Safety Review Board (NDSRB). The NDSRB recommends changes or modifications to USACE for implementation.

5) How are partners/stakeholders involved in the requirements collection process?

Answer: A recurring process is in place, including defining new partner and stakeholder business

needs as they arise, and is fully implemented.

Justification Comment:

Attachment(s): 0

Business needs and processes are discussed within the NID Work Group (4 federal and 3 state representatives) then proposed to the National Dam Safety Review Board (NDSRB). The NDSRB recommends changes or modifications to USACE for implementation.

6) Is there a quality assurance process for the dataset?

Answer: Quality assurance published as appropriate with respect sensitivity requirements.

Justification Comment:

Attachment(s): 1

The web-based NID submittal tool is used by the state and federal agencies to provide their NID data to USACE. This tool imports their local dam information and maps their local values to the NID values. Quality assurance and checks have been incorporated into the tool. It is the responsibility of the data owners to review and correct potential errors. See attached for NID Submittal Tool tutorial.

7) Is there a process to evaluate the sensitivity, privacy, and confidentiality of this dataset?

Answer: Sensitivity, privacy, and confidentiality evaluations fully implemented, reviewed and updated on a recurring basis.

Justification Comment:

Attachment(s): 0

The NID dataset does not contain classified nor personally identifiable information. Six data fields have been identified as sensitive and a government account is required to view this information. The six NID data fields restricted to government access are Nearest Downstream City, Distance to Nearest Downstream City, Hazard Potential Classification, Condition Assessment, Condition Assessment Detail and Condition Assessment Date. These restrictions are reviewed and approved by the National Dam Safety Review Board.

8) Are defined data standards used in collecting, processing, and/or rendering the data?

Answer: Standards fully implemented documented and published as appropriate.

Justification Comment:

Attachment(s): 0

The web-based NID submittal tool is used by the state and federal agencies to provide their NID data to USACE. This tool imports their local dam information and maps their local values to the NID values. The NID data dictionary is also provided as a reference.

STAGE 2 - Inventory/Evaluate

9) Is there a process for determining if data necessary to meet requirements already exist from other sources (either within or outside the agency) before collecting or acquiring new data?

Answer: Process for determining appropriate data is being reused fully implemented, reviewed, and updated on a regular basis.

Justification Comment:

Attachment(s): 0

The NID is the only national data set of dam information. Each dam safety regulating agency (state and federal) maintain their own local datasets. USACE collects that local information and compiles into the NID.

STAGE 3 - Obtain

10) Is there a process for obtaining data in relation to this dataset?

Answer: Process is fully implemented, reviewed and updated on a regular basis.

Justification Comment:

Attachment(s): 0

USACE also collects state and federal dam safety program performance measures. In conjunction with the NID, this information assists government agencies and national oversight committees in their recommended policies.

11) Is the metadata in a FGDC endorsed geospatial metadata standard?

Answer: Metadata is available in a format endorsed by the FGDC, it fully describes the dataset and provides all the information required to make the dataset discoverable, accessible, and usable.

Justification Comment:

Attachment(s): 0

NID dataset is registered on data.gov and metadata available from <http://catalog.data.gov/dataset/national-inventory-of-dams>.

12) How complete is the geographic coverage as defined in the requirements for the dataset?

Part 1 Answer: Business requirements for cyclic updates identified and a process is in place.

Part 2 Answer: Dataset has presently attained the greatest geographic coverage as defined by the current requirements or roughly 100%.

Justification Comment:

Attachment(s): 0

USACE receives dam information from all 50 states, Puerto Rico and all federal agencies that regulate or own dams.

STAGE 4 - Access

13) Do you have a process for providing users access to the data in an open digital machine readable format?

Answer: User access process is fully implemented, data is available, process is reviewed and updated on a recurring basis.

Justification Comment:

Attachment(s): 0

The National Inventory of Dams dataset is available for public viewing and querying via USACE web site, <http://nid.usace.army.mil>. Because of security concerns, the NID is not available for public download. Six data fields have been identified as sensitive and a government account is required to view this information. Government users also have the capability to download and export the NID data. All government users must accept the non-disclosure agreement before entering the NID web site. The six NID data fields restricted to government access are Nearest Downstream City, Distance to Nearest Downstream City, Hazard Potential Classification, Condition Assessment, Condition Assessment Detail and Condition Assessment Date. Federal government accounts are approved in conjunction with the requesting federal agency (through assigned Points of Contacts). State and local government accounts are approved by the state dam safety offices. The NID dataset is also available to government agencies from Homeland Security Infrastructure Program (HSIP).

STAGE 5 - Maintain

14) Is there a maintenance process for updating and storing the dataset?

Answer: Dataset maintenance process is fully implemented and processes are reviewed and periodically updated.

Justification Comment:

Attachment(s): 0

USACE periodically collects and compiles the NID dataset. The NID submittal tool allows agencies to quickly import their local data, map their local values to the NID and submit to USACE. With this new web-based tool, it is anticipated that updates will become more frequent.

15) Is there an error correction process as part of dataset maintenance?

Answer: Error correction process includes user notification, process reviewed on a recurring basis.

Justification Comment:

Attachment(s): 0

If data errors are found within the NID dataset, they are reported back to the state or federal agency responsible for the dam information. The web-based NID data set only changes during the NID update cycle. No individual changes are made at the national level.

STAGE 6 - Use/Evaluate

16) Is there a process to determine if the dataset meets user needs?

Answer: Process is fully implemented and repeated on a recurring basis.

Justification Comment:

Attachment(s): 0

State and federal agencies request modifications to the NID dataset manager. The suggestions are reviewed by the NID Work Group and proposed to the National Dam Safety Review for their approval.

17) Is there a process to provide users information on how to access and properly use the dataset?

Answer: Process is fully implemented supporting access and proper use, process is reviewed on a recurring basis.

Justification Comment:

Attachment(s): 2

The NID web site includes multiple help files, see attached. Instructions on using Interactive Report and Map (file too large to include); NID overview and NID data dictionary.

18) Are the business processes and management practices assessed to meet changing technology?

Answer: Assessment process is fully implemented for taking advantage of changing technology, process is reviewed on a recurring basis.

Justification Comment:

Attachment(s): 0

USACE recently launched new web-based submittal tool allowing state and federal agencies to easily and quickly provide their dam information to USACE.

STAGE 7 - Archive

19) Is there an archiving process for the dataset?

Answer: Archival and disposition processes are fully implemented.

Justification Comment:

Attachment(s): 0

Archived copies of the NID dataset are stored at the US Army Geospatial Center.